

What is claimed is:

1. A vibration type driving apparatus comprising:

a vibration body which generates vibration by supplying a driving signal to an electro-mechanical energy converting element; and

a contact body which contacts the vibration body and is driven by vibration received from the vibration body,

wherein the vibration body comprises a base portion having the electro-mechanical energy converting element and a plurality of vibration amplification portions for amplifying vibration generated at the base portion, and

the neighboring vibration amplification portions of the plurality of vibration amplification portions are connected in the driving direction of the contact body.

2. The vibration type driving apparatus according to claim 1, wherein vibration at the base portion is vibration which displaces some of the plurality of vibration amplification portions in a direction different from the driving direction of the contact body, and

the plurality of vibration amplification portions are connected so as to transmit the displacement of the vibration amplification portion by vibration at the base portion.

3. The vibration type driving apparatus according to claim 1, wherein the vibration at the base portion is vibration

whereby a wave appears along a line passing through the center of a plane substantially parallel to the driving plane of the contact body, and

the plurality of vibration amplification portions are connected so as to transmit the displacement of the vibration amplification portion by vibration at the base portion.

4. The vibration type driving apparatus according to claim 1, wherein vibration at the base portion is a traveling wave generated by combining a plurality of standing waves which are generated in such a way that one node is formed at the same position.

5. The vibration type driving apparatus according to claim 1, wherein vibration generated at the vibration body is a primary traveling wave.

6. The vibration type driving apparatus according to claim 1, wherein the vibration amplification portion is located at a position that satisfies a relationship on the base portion:

$$Z(r) \times dZ(r)/dr \geq 0$$

where r is a distance from the center of the base portion to the vibration amplification portion and $Z(r)$ is an amount of displacement of the base portion in a direction perpendicular to a contact plane between the vibration body

and contact body.

7. The vibration type driving apparatus according to claim 4, wherein the plurality of vibration amplification portions are arranged at a position within a range of $1/4$ wavelength from the center of the base portion outward with respect to the node of the standing wave.

8. The vibration type driving apparatus according to claim 1, wherein the plurality of vibration amplification portions are arranged at positions of concentric circles with respect to the center of the base portion.

9. The vibration type driving apparatus according to claim 1, wherein the plurality of vibration amplification portions are fixed to a fixed portion formed integral with the vibration amplification portions.

10. The vibration type driving apparatus according to claim 1, wherein the plurality of vibration amplification portions are formed as a single piece.

11. The vibration type driving apparatus according to claim 1, wherein the base portion is structured in such a way that rigidity of the area located in the antinode of the standing wave is smaller than rigidity of other areas.

12. The vibration type driving apparatus according to claim

1, wherein the base portion consists of only an electro-mechanical energy converting element.